IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor:

Choi, Byung-Jin

App. No.:

10/616,294

GPAU:

1722

Filing Date:

July 9, 2003

Examiner:

Thukhanh T. Nguyen

Dkt. No.:

P92-34-03

Conf. No.: 1597

For: Systems for Magnification and Distortion Correction for

Imprint Lithography Processes

## INFORMATION DISCLOSURE STATEMENT

Mail Stop AMENDMENT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

The following information is submitted in compliance with Applicants' duty of disclosure and pursuant to 37 C.F.R. § 1.56, § 1.97 and § 1.98. The undersigned brings the patents, publications, applications or other information identified in the attached:

oxtimes Form(s) PTO/SB/08A and/or PTO/SB/08B or PTO/1	$\boxtimes$	Form(s)	PTO/SB/08A	and/or	PTO/SB/08B	or	PTO/1449
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□ Other:

to the Examiner's attention in the above-identified application. It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

This Information Disclosure Statement is being filed:

before the mailing date of a first Office action on the merits or before the mailing date of a first Office action after the filing of a request for continued examination under § 1.114. Therefore, no fee is believed required.

Applicants do not believe that any additional fees are due, but if the Commissioner believes additional fees are due, the

Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number 502650.

CERTIFICATE OF TRANSMISSION

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as either First Class Mail or Express Mail, in an envelope addressed to the Commissioner for Patents.

Signed:\_

Typed Name: Katrina Prati

Date:

Respectfully Submitted,

Kenneth C. Brooks, Reg. No. 38,393

Legal Department

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PTO/SB/08A (08-03) Approved for use through 7/31/2006. OMB 0651-0031

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Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet	1	of	8

Complete if Known						
APPLICATION NUMBER	10/616,294					
FILING DATE	07/09/2003					
FIRST NAMED INVENTOR	Choi et al.					
Group Art Unit	1722					
Examiner Name	Nguyen, Thukhanh T.					
Attorney Docket Number	P92-34-03					

				U.S. PATENT DOCUMEN	TS	
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document  Kind Code <sup>2</sup> Number (if known)		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	C1	5,414,514		Smith et al.	5/9/1995	
	C2	5,808,742		Everett et al.	9/15/1998	
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	C5	6,334,960	B1	Willson et al.	1/1/2002	
	C6	6,391,217	B2	Schaffer et al.	5/21/2002	
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	C14	2003/0092261	A1	Kondo et al.	5/15/2003	
-	C15	2003/0179354	A1	Araki et al.	9/25/2003	
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	C18	6,713,238	B1	Chou et al.	3/30/2004	

Examiner	Date	
Signature	Considered	

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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INIE	ODMATION	l Dicci (	SCUDE	APPLICATION NUMBER	10/616,294	
	ORMATION ATEMENT I			FILING DATE	07/09/2003	
317	AI EIVIEIVI I	DI AFFL	JOAN I	FIRST NAMED INVENTOR	Choi et al.	
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Sheet	Sheet 2 of 8		8	Examiner Name	Nguyen, Thukhanh T.	
			Attorney Docket Number	P92-34-03		

		U.S. Patent Do	ocument	U.S. PATENT DOCUMEN	1	Pages, Columns, Lines,
Examiner Initials*	Cite No. <sup>1</sup>	Number	Kind Code <sup>2</sup> (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Where Relevant Passages or Relevant Figures Appear
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	C19	2004/0008334	A1	Sreenivasan et al.	1/15/2004	
	C20	2004/0009673	A1	Sreenivasan et al.	1/15/2004	
	C21	2004/0124566	A1	Sreenivasan et al.	7/1/2004	***
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P92-34-03

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number Substitute for form 1449A/PTO Complete if Known **APPLICATION NUMBER** 10/616,294 INFORMATION DISCLOSURE **FILING DATE** 07/09/2003 STATEMENT BY APPLICANT **FIRST NAMED** Choi et al. **INVENTOR** Group Art Unit 1722 (use as many sheets as necessary) **Examiner Name** Nguyen, Thukhanh T. Sheet 3 8

Attorney Docket Number

		U.S. Patent Document			Date of Publication of	Pages, Columns, Lines,	
Examiner Initials*	Cite No. <sup>1</sup>	Number	Kind Code <sup>2</sup> (if known)	Name of Patentee or Applicant of Cited Document	Cited Document MM-DD-YYYY	Where Relevant Passages or Relevant Figures Appear	
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	C38	2002/0167117	A1	Chou	11/14/2002	,	
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Examiner	 Date	
Signature	Considered	

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314	TI EINIEIN I	DI APPL	ICAN I	FIRST NAMED INVENTOR	Choi et al.		
(us	se as many she	ets as necessa	ry)	Group Art Unit	1722		
Sheet	4	of	8	Examiner Name	Nguyen, Thukhanh T.		
				Attorney Docket Number	P92-34-03		

U.S. PATENT DOCUMENTS								
Examiner Initials*	Cite No.1	U.S. Patent Do	Kind Code <sup>2</sup> (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
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	C56	2002/0042027	A1	Chou et al.	4/11/2002			
	C57	6,636,311	B1	Ina et al.	10/21/2003			
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	C62	6,630,410	B2	Trapp et al.	10/7/2003			
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	C67	6,295,120	B1	Miyatake	9/25/2001			
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	C69	6,285,439	B1	Miyatake	9/4/2001			
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Signature		Considered		
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	ORMATION ATEMENT B			FILING DATE	07/09/2003	
317	41 CIVICIVI E	OI MPPL	ICANT	FIRST NAMED INVENTOR	Choi et al.	
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Sheet	5	of	8	Examiner Name	Nguyen, Thukhanh T.	
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			* -	U.S. PATENT DOCUMEN	TS		<u> </u>
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Do	Kind Code <sup>2</sup> (if known)	Name of Patentee or Applicant of Cited Document	Date of Po	ublication of locument D-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1						
	C73	2004/0110856	A1	Young et al.	6/10/20	04	
	C74	5,028,366		Harakal et al.	7/2/199	1	
	C75	5,601,641		Stephens	2/11/19	97	
	C76	5,849,209		Kindt-Larsen et al.	12/15/1	998	
	C77	5,849,222		Jen et al.	12/15/1	998	
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Examiner Signature						Date Considere	ed

<sup>\*</sup>Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

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	ATEMENT I			FILING DATE	07/09/2003		
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	. <b></b>	4	•	Group Art Unit	1722		
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Sheet	6	of	8	Attorney Docket Number	P92-34-03		

				FOREIGN	PATENT DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Office 3	Foreign Patent Document Kind Code <sup>5</sup> Number <sup>4</sup> (if known)		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
	C78	wo	00/21689		Chou et al.	4/20/2000		
	C79	JP	02-92603		Kurikawa et al.	4/3/1990		
	C80	јР	02-24848		Kamio	1/26/1990		
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	C82	wo	02/07199		Chou	1/24/2002		
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	C86	wo	03/079416		Chou	9/25/2003		
	C87	wo	03/099536		Chou et al.	12/4/2003		

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STAT	EMENT B	Y APPLI	CANT	FILING DATE	07/09/2003	
				FIRST NAMED INVENTOR	Choi et al.	
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Sheet	7	of	8	Examiner Name	Nguyen, Thukhanh T.	
				Attorney Docket Number	P92-34-03	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>			

C88	Colburn et al., Step and Flash Imprint Lithography for sub-100 nm Patterning, Proceedings of SPIE Vol. 3997, pp. 453 - 457, 1/1/2000	
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C94	Translation of Japanese Patent 02-24848	
C95	Chou et al., Ultrafast and Direct Imprint of Nanostructures in Silicon, Nature, Col. 417, (June 2002), pp. 835-837, 6/1/2002	
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Signature	Considered	

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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

<sup>^</sup>Applicant's unique citation designation number (optional). ^Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending on the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450.. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for	form 1449A/P	то		Complete if Known		
INFO	RMATION	DISCLO	SURE	APPLICATION NUMBER	10/616,294	
STAT	EMENT B	Y APPLI	CANT	FILING DATE	07/09/2003	
				FIRST NAMED INVENTOR	Choi et al.	
(use	as many sheets	as necessary	)	Group Art Unit	1722	
Sheet	8	of	8	Examiner Name	Nguyen, Thukhanh T.	
	1	<b>.</b>		Attorney Docket Number	P92-34-03	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>			

C97	Colburn et al., Development and Advantages of Step-and-Flash Lithography, Solid State Technology, 7/1/2001	
C98	Colburn et al., Characterization and Modeling of Volumetric and Mechanical Properties for Step and Flash Imprint Lithography Photopolymers, Journal of Vacuum Science Technology. Vol b. 19(6), 11/1/2001	
C99	Bailey et al., Step and Flash Imprint Lithography: Defect Analysis, Journal of Vacuum Science, B 19(6), pp. 2806-2810, 11/1/2001	
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C103	Martin et al., Predication of Fabrication Distortions in Step and Flash Imprint Lithography Templates, Journal of Vacuum Science Technology B 20(6), pp. 2891-2895, 11/1/2002	

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<sup>\*</sup>Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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